

The chemical structure represents a poly(amide-imine) polymer. The main chain consists of repeating units connected by amide and imine bonds. The structure is highly branched and includes several functional groups and labels:

- Amide groups:** NH-CO linkages are present throughout the chain.
- Imine groups:** C=N linkages are also present, particularly in the central and right-hand portions of the structure.
- Substituents:**
 - Phenyl groups:** C_6H_5 groups are attached to various carbon atoms in the chain.
 - Carboxylate groups:** COO^- groups are shown, indicating the presence of acidic side chains.
 - Ammonium groups:** NH_3^+ groups are attached to some of the nitrogen atoms in the chain.
- Labels:**
 - L:** Located on the left side of the structure, near a carboxylate group.
 - D:** Located in the center-left, near a phenyl group.
 - K:** Located at the bottom left, near an ammonium group.
- Other features:**
 - A large, irregular oval shape is drawn around a central portion of the polymer chain.
 - Various other chemical groups like CH_2 , CH , and C are shown as part of the backbone and side chains.

Figure 2

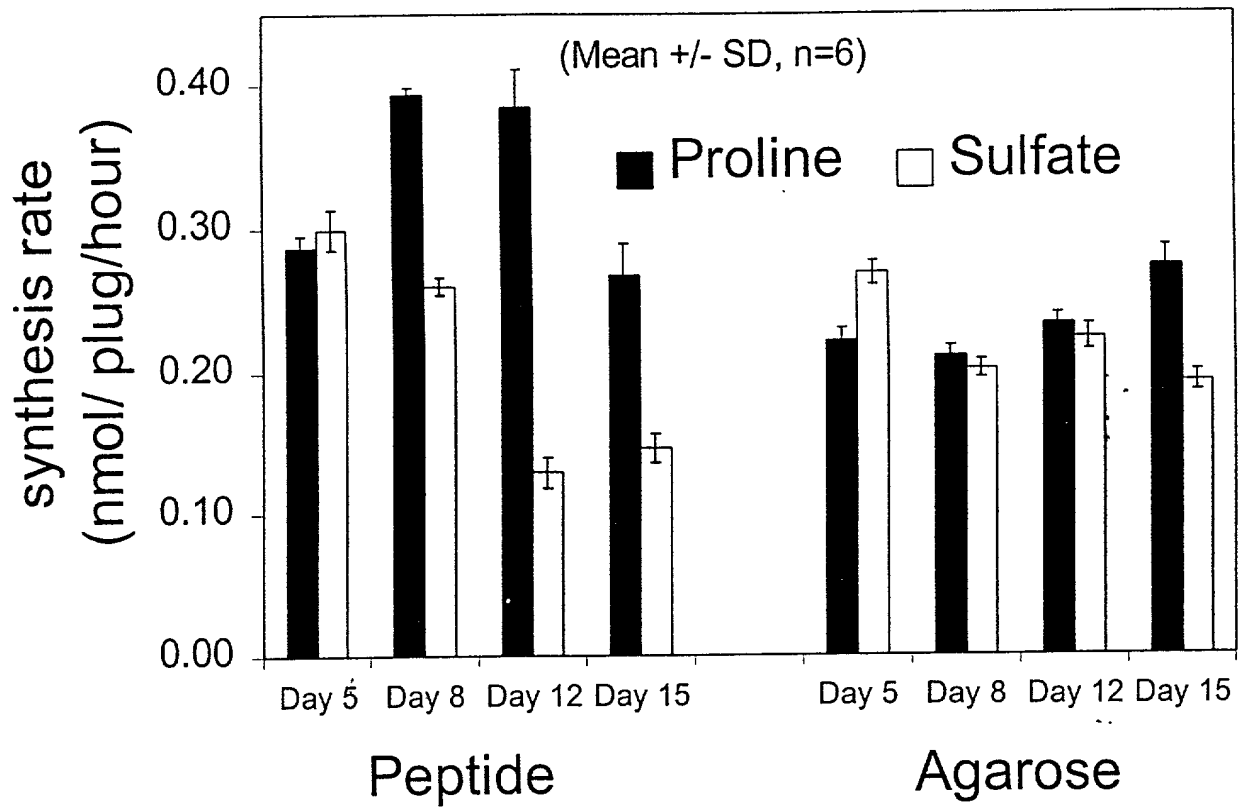


Figure 3

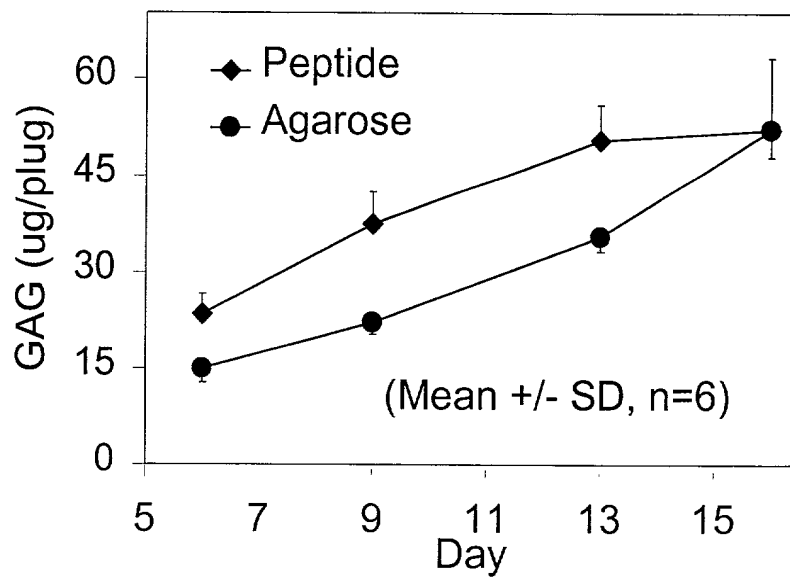


Figure 4

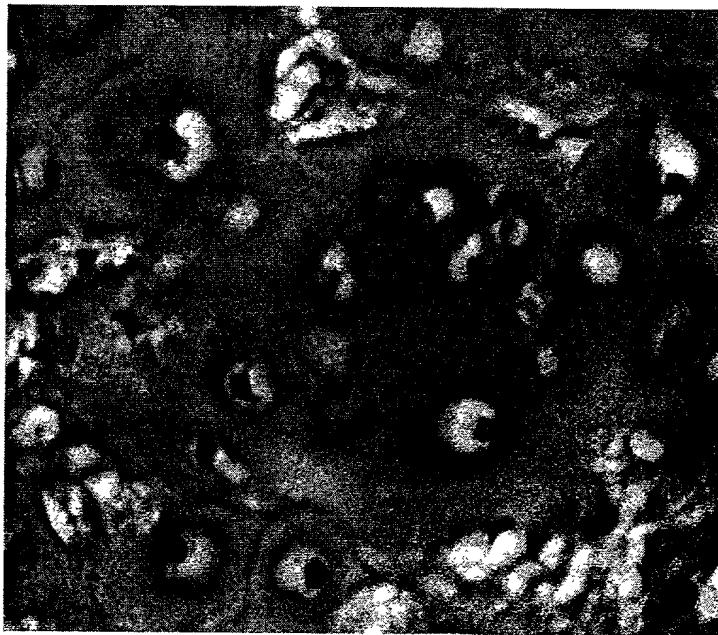


Figure 4

Figure 5

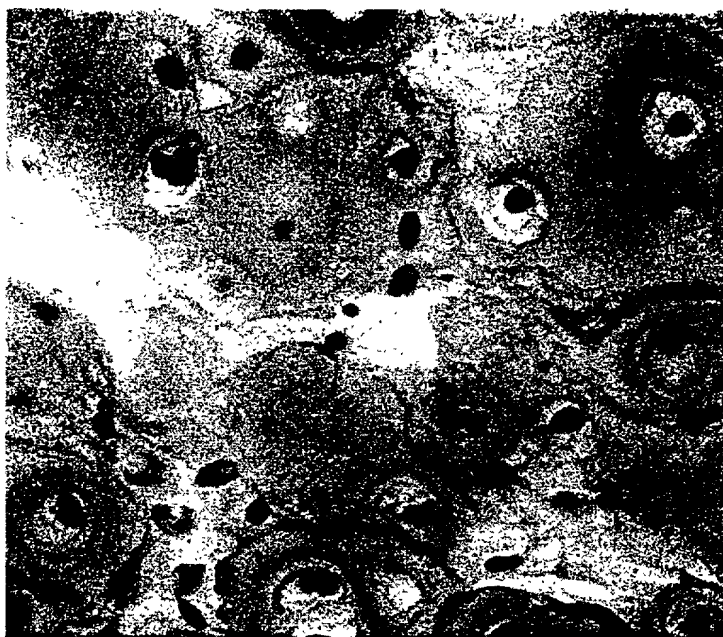


Figure 6

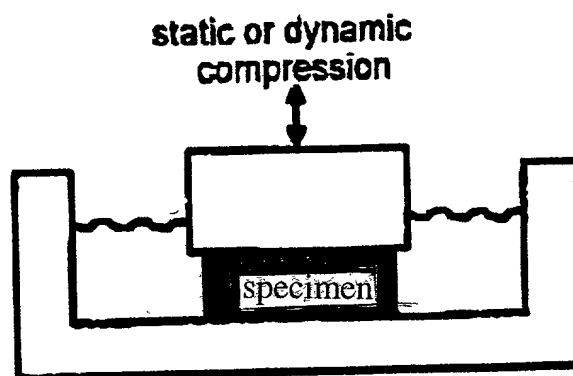


Figure 7

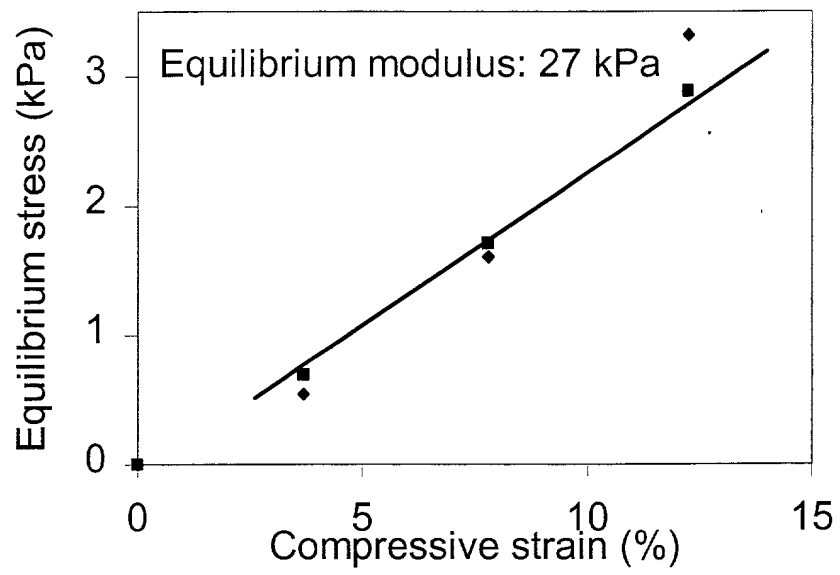


Figure 8



Figure 9 A



Figure 9 B

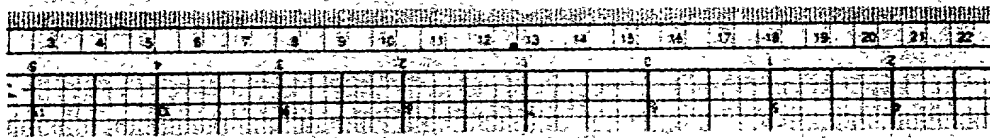


Figure 9 C

